

JEFFERSON SCIENCE ASSOCIATES, LLC.
THOMAS JEFFERSON NATIONAL ACCELERATOR FACILITY
628 HOFSTADTER ROAD, SUITE 2, NEWPORT NEWS, VA 23606
(757) 269-7598

JOB OPPORTUNITIES BULLETIN

WEB SITE: <http://www.jlab.org/>

APPLICATION PROCEDURE:

To apply, go to the web site under Public Connections, select "Employment"; under Resources select "Career Opportunities". In the box, use the search tool below to find the job that best suits your skills and interests. You may then build a profile, submit your personal information, and apply for any available position.

ADMINISTRATORS

10317 – HR Employee Relations Consultant (REV)

SALARY RANGE: \$53,000 - \$79,400 (SA II)

EXPERIENCE/EDUCATION REQUIREMENTS:

Bachelor's Degree in Business, Human Resources or related field and/or equivalent work experience. At least five (5) years related experience with employee relations activities. HR Certification (PHR, SPHR) preferred.

10391 – 12 GeV Project Team Coordinator/Administrator

SALARY RANGE: \$53,000 - \$79,400 (SA II)

EXPERIENCE/EDUCATION REQUIREMENTS:

Bachelor's Degree plus seven (7) years or progressively more responsible experience, which includes management of personnel and resources. Microsoft Office applications, PowerPoint, Adobe Acrobat Reader, document graphics, spreadsheets, and databases are required. Must be familiar with government-funded projects and related planning activities. Superior written and oral communications skills, excellent analytical, problem-solving, conflict resolution, and negotiation skills are also required.

ADMINISTRATIVE SUPPORT

10402 - Technical Inventory Specialists

SALARY RANGE: \$26,400 - \$35,800 (ASII)

(CASUAL POSITION NOT TO EXCEED 1,000 PER YEAR – SUMMER POSITION)

EXPERIENCE/EDUCATION REQUIREMENTS:

HS Degree plus two (2) years experience and general knowledge of electrical and mechanical equipment. Ability to prepare accurate reports, use of relational databases to track and analysis data including development of custom reports. Computer skills in email, word processing, spread sheets, and data entry skills.

ASSOCIATE COORDINATORS

10355 – Hall A Operations Coordinator

SALARY RANGE: \$51,800 - \$82,000 (A/C I)

EXPERIENCE/EDUCATION REQUIREMENTS:

A.S. Degree plus ten (10) years experience or equivalent combination of education and experience, including supervisory experience. In depth and demonstrated knowledge of electronics and controls. Ability to schedule and coordinate multiple tasks and people in multiple disciplines weeks to months in advance of requirement. Ability to communicate verbally and in writing, managerial and technical subjects to all levels of lab personnel. Documented in-depth experience working on component level electronics and controls including troubleshooting and circuit design.

ENGINEERS

10295 – Sr. Engineer for Magnets

SALARY RANGE: \$99,100 - \$156,500 (SSS)
\$120,100 - \$189,700 (PSS)

EXPERIENCE/EDUCATION REQUIREMENTS:

M.S. or Ph.D. Degree in Engineering or Physics with at least ten (10) years documented experience leading significant scale super conducting magnet projects. Experience with Engineering Analysis tools such as FEA and TOSCA 3D Magnetic Analysis is required. Proficiency in magnet design codes, POISSON and/or OPERA, is strongly desired. Experience in some of the following related areas is required: vacuum systems, load bearing support structures, liquid helium cryogenics, pressure vessel and pressure piping, load bearing positioning and alignment mechanisms. Prior work experience as an engineer in a leadership capacity responsible for complete superconducting magnet systems is required.

10323 – 12 GeV Safety Manager

SALARY RANGE: \$81,700 - \$129,300 (SE III)

EXPERIENCE/EDUCATION REQUIREMENTS:

Expert working knowledge of 29 CFR 1910 and 1926 requirement; detailed working knowledge of 10 CFR 851 requirements; working knowledge of a broad range of ES&H topical areas; outstanding ability to successfully interact, facilitate, and integrate a wide range of personnel, including construction subcontractor employees, scientific staff, project management staff, engineers, and oversight personnel. Masters Degree in an ES&H related field, or Bachelor's Degree with certification, or sufficient relevant experience may be substituted. At least twelve (12) years relevant ES&H experience required. Experience with large scientific construction projects, requiring integration of a number of in-house and subcontracted activities is desirable.

10325 – Pressure Systems Mechanical Engineer

SALARY RANGE: \$81,700 - \$129,300 (SE III)

EXPERIENCE/EDUCATION REQUIREMENTS:

BS or MS Degree in Mechanical Engineering or a closely related field with a minimum of twelve (12) years of design experience in pressure systems where consensus codes were applied throughout a project. A demonstrated track record of designing complex pressure vessels or piping system according to ASME codes is required. This may include development of welding/brazing procedure specifications and procedure qualification records according to ASME. Familiarity with equivalent European codes is a plus. The candidate must have a demonstrated ability to do independent research and proven analytical skills. Good communication skills and the ability to interact constructively with a wide variety of staff are required. Some familiarity with cryogenic plant design and operations or experience in particle accelerator system design would be helpful.

10337 – Health Physicist

SALARY RANGE: \$65,300 - \$103,100 (SE II)
\$81,700 - \$129,300 (SE III)

EXPERIENCE/EDUCATION REQUIREMENTS:

Baccalaureate Degree in a scientific/engineering field plus at least five (5) (SE II) or ten (10) (SE III) years of professional level experience in Health Physics or an equivalent combination of education and experience. Degree in non-scientific discipline acceptable with NRRPT (for SE II) or ABHP (for SE III) certification. Small group leadership experience is very desirable. Experience managing multiple projects and tasks are important. Experience at a high-energy accelerator laboratory, ABHP certification or advanced degree are a plus. **SE III only:** Publications in peer-reviewed journals, presentations at conferences and/or other signs of recognition by the radiation protection community are expected at this level.

10342 – Energy and Resource Conservation Engineer

SALARY RANGE: \$51,800 - \$82,200 (SE I)
\$65,300 - \$103,100 (SE II)

EXPERIENCE/EDUCATION REQUIREMENTS:

Engineer I - Bachelor's Degree in energy management (preferred), architectural, mechanical or electrical engineering or related field with emphasis on energy management. Computer skills with Microsoft Word, Excel, and Access. Qualifications as a Certified Energy Manager are desirable. Certification as a LEED professional is desirable.

Engineer II - Bachelor's Degree in energy management (preferred), architectural, mechanical or electrical engineering or related field with emphasis on energy management. Professional designation of Certified Energy Manager (CEM) or Professional Engineer (PE), required. Three (3) to five (5) years of experience in energy management, mechanical systems design, commissioning, and/or operations and maintenance or closely related field. Certification as a LEED professional is desirable. Computer skills with Microsoft Word, Excel, and Access.

10343 – Fire Protection Engineer

SALARY RANGE: \$51,800 - \$82,000 (SE I)
\$65,300 - \$103,100 (SE II)

EXPERIENCE/EDUCATION REQUIREMENTS:

Engineer I - B.S. Degree in Fire Protection Engineering, Fire Protection and Safety Engineering Technology or related discipline. Specifically, it is desired that the candidate have experience in Fire Protection System (suppression / alarm) design and code compliance. Computer skills with Microsoft Word, Excel, and Access.

Engineer II - B.S. Degree in Fire Protection Engineering, Fire Protection and Safety Engineering Technology or related discipline. Specifically, it is desired that the candidate have experience in Fire Protection System (suppression / alarm) design and code compliance. Three (3) to five (5) years experience in fire protection design or related consulting services. Computer skills with Microsoft Word, Excel, and Access.

10373 – Manager – Facilities Maintenance

SALARY RANGE: \$81,700 - \$129,300 (SE III)

EXPERIENCE/EDUCATION REQUIREMENTS:

Bachelors Degree (Masters or higher preferred) in engineering or an engineering-related field and twelve (12) years applicable experience, or an equivalent combination of education, experience and specific training heavily weighted in the civil, structural or architectural areas and/or civil/structural aspects of facility maintenance. At least five (5) years experience must be at the managerial level in the planning, development and implementation of facility maintenance and support services. Current Professional Engineering registration in Virginia or a state with a direct reciprocity agreement with Virginia is highly desirable but not mandatory. Effective verbal/written communications, time management, interpersonal and organizational skills. Displays high level of initiative and demonstrates ability to manage multiple projects with clear expectations and timelines. Excellent problem-solving and decision-making skills required. Demonstrates ability to implement and apply innovative and creative solutions to complex problems. Ability to work collaboratively with individuals at all levels in the organization in a team environment.

10377 – Mechanical Engineer

SALARY RANGE: \$51,800 - \$103,100 (SE I/II)

EXPERIENCE/EDUCATION REQUIREMENTS:

A BS or MS Degree in Engineering or Physics is required. Additional experience in a precision environment such as accelerators or a complex industry such as aircraft will be considered toward the higher position. Several areas of Mechanical Engineering with an emphasis on structures, material science, fluid flow, and heat transfer are required. Knowledge of cryogenics, vacuum, magnet design, vibration, water system, and/or stress analysis is desired. Generating practical design solutions by utilizing knowledge of machine shop techniques and systems hardware are required. The ability to interact with other engineering and design personnel to solve and resolve problems in consultation with customers is also desired.

10384 – FEL Operations Coordinator

SALARY RANGE: \$99,100 - \$156,500 (SSE)

EXPERIENCE/EDUCATION REQUIREMENTS:

BS Degree in Electrical Engineering or equivalent. Must be a US Citizen. Minimum of twelve (12) years experience operating electron beam devices.

10389 – Electronics Engineer

SALARY RANGE: \$65,000 – \$103,100 (SE II)

EXPERIENCE/EDUCATION REQUIREMENTS:

Bachelor of Science Degree in Electrical Engineering or related field, Master Degree preferred. Candidate should have at least four (4) years experience in electronic circuit and system design. Experience with PC-based computer aided design tools, spreadsheets, and word processing software is required. Candidate must have strong written and oral communication skills. A solid foundation in the basic sciences of math, chemistry, and physics are a plus.

10393 - Mechanical Engineer – Accelerators

SALARY RANGE: \$65,300 - \$103,100 (SE II)
\$81,700 - \$129,300 (SE III)

(TERM POSITION ENDING FOUR YEARS FROM HIRE DATE)

BS or MS Degree in Engineering or closely related field with five (5) or more years of practical design experience is required. Additional experience in a precision environment such as accelerators or a complex industry such as aerospace is beneficial. Must have a strong technical background, proven analytical skills, and familiarity with parts design and fabrication in some of the following areas: structures, material sciences, fluid flow or heat transfer. Should be capable of generating practical design solutions by utilizing knowledge of machine shop techniques and systems hardware. Familiarity with any aspect of accelerator design and theory, including injector design, ultra high vacuum, cryogenics, accelerator diagnostics, magnets, alignment and superconducting radio frequency cavities and cryostat design is desired. Good communications skills and the ability to interact constructively with physicists, engineers, designers, technicians, and procurement personnel are required. Supervisory and/or project management experience is considered a plus.

10399 – SRF Lead Mechanical Engineer

SALARY RANGE: \$81,700 - \$156,500 (SE III/SSE)

EXPERIENCE/EDUCATION REQUIREMENTS:

Baccalaureate Degree or MS in Engineering with a minimum of ten (10) years of design experience related to particle accelerators or the equivalent combination of education, experience, and specific training. Experience in structural mechanics, heat transfer, cryogenics, and vacuum systems is required. Supervisory and/or project management experience is also required. Familiarity with multiple aspects of particle accelerator design and theory, including ultra high vacuum, superconducting radio frequency cavities and cryostat design is strongly desired. Must have a demonstrated ability to do independent research and proven analytical skills.

SCIENTISTS**10293 – 12 GeV Associate Project Manager**

SALARY RANGE: \$99,100 - \$156,500 (SSS)
\$120,100 - \$189,700 (PSS)

EXPERIENCE/EDUCATION REQUIREMENTS:

Advance degree in Physics (preferably Ph.D) and a minimum of twelve (12) years experience in Nuclear or Accelerator Physics or related field. Experience in project management of a facility, a major scientific experiment or an experimental equipment construction effort.

10351 – Experimental Hall C Physicist

SALARY RANGE: \$51,800 - \$82,000 (SS I)
\$65,300 - \$103,100 (SS II)

EXPERIENCE/EDUCATION REQUIREMENTS:

A Ph.D. in Experimental Nuclear or Particle Physics or equivalent education, experience, and specific training. At least three (3) years of experience in Experimental Nuclear or Particle Physics resulting in international recognition. The candidate should have demonstrated the ability to conceive original experiments in Nuclear and/or Particle Physics. Should have a strong instrumentation background, including data analysis. Demonstrates ability to work as part of a team effort to achieve very high quality experimental research required. Applicants should send a Curriculum Vitae, copies of recent unpublished work, and arrange to have letters from three (3) references sent to: Human Resources Consultant, Jefferson Lab, 628 Hofstadter Road, Suite 2, Newport News, VA 23606.

10357 – Deputy Associate Director – Accelerator Division

SALARY RANGE: \$99,100 - \$156,500 (SSS)
\$120,100 - \$189,700 (PSS)

EXPERIENCE/EDUCATION REQUIREMENTS:

The successful candidate will have a Ph.D and fifteen (15) years relevant experience or the equivalent of education and experience in Accelerator Physics or related field, and a demonstrated track record of technical management of significant projects in accelerator design, construction, commissioning and/or operation. The candidate should possess excellent communication and leadership skills and demonstrate good judgment. The candidate should have a functional knowledge of beam dynamics in accelerators and of all the accelerator systems, including RF, magnets and power supplies, beam diagnostics, control systems, etc. Knowledge of superconducting cavities or cryogenics would be a plus, but is not a requirement.

10364 – Nathan Isgur Distinguished Postdoctoral Fellowship

SALARY RANGE: \$51,800 - \$82,000 (SS I)

(TERM POSITION ENDING THREE YEARS FROM HIRE DATE)

EXPEIENCE/EDUCATION REQUIREMENTS:

A Ph.D in Experimental or Theoretical Nuclear or High-energy Physics is required. Since the fellowship is meant to further the career of an outstanding young scientist, the applicant should be within five (5) years of the award of the Ph.D. Applications should include the following: A Curriculum Vitae with the usual summary of education, publication, and physics experience submitted on-line. A description of the proposed research program. This should be limited to five (5) pages. A list of four (4) persons who will submit letters of reference supporting the application. The applicants should arrange that they be sent directly to Jefferson Lab: Attn: Human Resources Consultant, Jefferson Lab, 628 Hofstadter Road, Suite 2, Newport News, VA 23606.

10366 – Hall D Group Leader

SALARY RANGE: \$99,100 - \$156,500 (SSS)
\$120,100 - \$189,700 (PSS)

EXPERIENCE/EDUCATION REQUIREMENTS:

Ph.D. in Experimental Nuclear or Particle Physics or the equivalent combination of education, experience, and specific training. At least ten (10) years of professional experience in intermediate energy nuclear/particle physics or a closely related area, of which a minimum of three (3) years is in management of an internationally recognized physics research group. Technical experience with a broad variety of experimental equipment such as large-scale detectors, high rate data acquisition and trigger systems, and offline software for charged particle tracking and detector simulations. Scientific excellence as demonstrated by extensive publication in nuclear/particle physics, and demonstrated supervisory, planning, problem solving, decision making, and communication skills. Capable of quickly acquiring a comprehensive knowledge of Hall D instrumentation and detailed familiarity with the Hall D physics program. Significant experiment and/or project management experience is highly desirable.

10382 – Hall D Staff Scientist

SALARY RANGE: \$51,800 - \$82,000 (SS I)
\$65,300 - \$103,100 (SS II)

EXPERIENCE/EDUCATION REQUIREMENTS:

Ph.D. in experimental nuclear, particle, or high-energy astrophysics is required. The successful candidate should either have a high degree of expertise in design, fabrication, assembly and operations of large, complex detectors or be a proven expert in hadronic physics analysis or have extensive experience with large scale detectors or data analysis combined with expertise in either modern high rate data-acquisition and trigger systems or offline software for charged particle tracking.

Applicants should provide a Curriculum Vitae on-line and have copies of recent unpublished work, along with three (3) letters of reference sent to: Human Resources Consultant, JSA/Jefferson Lab, 628 Hofstadter Road, Suite 2, Newport News, VA 23606 - *Deadline for applications: June 1, 2009*

10383 – FEL Accelerator Physicist

SALARY RANGE: \$65,300 - \$103,100 (SS II)

EXPERIENCE/EDUCATION REQUIREMENTS:

Ph.D in Physics or related field with minimum of five (5) years experience after PhD. Candidate must be a US citizen. Applicants should arrange to have three (3) letters of recommendation sent to: Human Resources Consultant, Jefferson Lab, 628 Hofstadter Road, Suite 2, Newport News, VA 23606 USA

10397 - Data Acquisition Scientist

SALARY RANGE: \$51,800 - \$82,000 (SS I)

EXPERIENCE/EDUCATION REQUIREMENTS:

Ph.D in Physics or electronics or Bachelor's Degree plus five (5) years experience in a relevant position. The candidate should have experience with VME and other bus-based systems, electronics design, and fabrication. Preference will be given to candidates who have worked with data acquisition systems in similar research facilities. Experience with FPGA programming and high speed serial devices is also advantageous.

Applicants should send a Curriculum Vitae, copies of recent unpublished work, and arrange to have letters from three (3) references sent to: Human Resources Consultant, Jefferson Lab, 628 Hofstadter Road, Suite 2, Newport News, VA 23606.

TECHNICIANS**10380 – Mechanical CAD Designer**

SALARY RANGE: \$44,300 - \$74,100 (TD II/III)\

(TERM POSITION ENDING FOUR YEARS FROM HIRE DATE)

EXPERIENCE/EDUCATION REQUIREMENTS:

AA Degree plus three (3) years experience or High School Graduate with six (6) years relevant experience or equivalent combination of education and experience in the engineering and design field is required. Specifically, the candidate must have practical experience producing mechanical designs and fabrication drawings. This position requires candidate to have extensive knowledge of 2D and 3D software and blueprint interpretation and geometric tolerances. Candidate will work directly with engineers and physicists and must be an effective communicator and a team participant.

10395 – Mechanical Draftsperson

SALARY RANGE: \$\$33,700 - \$60,300 (TD I/II)

(TERM POSITION ENDING THREE YEARS FROM HIRE DATE)

EXPERIENCE/EDUCATION REQUIREMENTS:

AA Degree or High School Graduate plus three (3) years experience in the drafting and design field is required. Specifically, the candidate must have practical hands-on experience in the generation of orthographic drawings. Past experience of machining and metal fabrication is a strong plus. Candidate will work in a professional environment with engineers and physicists. The candidate must be an effective communicator and able to work within the structure of a technical team.